

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (CURRENTLY AMENDED) ~~A Coated~~ing for an optical fiber, comprising:  
  
    a central portion having a cladding section; and  
  
    a coating over said central portion, wherein said coating comprises -at least one partly  
  
crosslinked ~~polymer resin, characterized in that~~wherein a level of crosslinking of said resin  
  
increases according to a radial distance from an internal surface ~~(3)~~ of the coating ~~(4)~~ which  
  
interfaces with a said cladding section ~~(2)~~ to an external surface of the coating ~~(4)~~.
  
2. (CURRENTLY AMENDED) ~~The Coating~~optical fiber of claim 1, ~~comprising a single resin~~  
  
~~characterized in that said~~wherein said -resin is composed of a volatile, multifunctional and  
  
moderately reactive monomer dissolved in a fast curable oligomer, and wherein said resin has  
  
~~having~~ a low modulus when polymerized.
  
3. (CURRENTLY AMENDED) A method of manufacturing of a coated optical fiber comprising:  
  
    ~~the steps of drawing of the~~an optical fiber,  
  
    ~~deposition~~depositing of a coating on said optical fiber ~~(4)~~,  
  
    curing of the coating, ~~(4)~~ and  
  
    spooling of the coated optical fiber,

~~characterized in that~~wherein the coating (4) comprises a ~~single~~ resin composed of a volatile, multifunctional and moderately reactive monomer dissolved in a fast curable oligomer, and wherein said resin has ~~having a~~ low modulus when polymerized and in that said monomer is not completely cured.

4. (CURRENTLY AMENDED) The method of claim 3, wherein at least some of said volatile monomer is evaporated ~~before~~ without being completely cured.

5. (CURRENTLY AMENDED) The method of claim 3, wherein ultraviolet irradiation is used for ~~an~~ the incomplete curing of the ~~single~~ resin.

6. (CURRENTLY AMENDED) The method of claim 3, wherein electron beam irradiation is used for ~~an~~ the incomplete curing of the ~~single~~ resin.

7. (NEW) The method of claim 4, wherein ultraviolet irradiation is used for the incomplete curing of the resin.

8. (NEW) The method of claim 4, wherein electron beam irradiation is used for the incomplete curing of the resin.